

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A soft magnetic material, comprising:
a plurality of composite magnetic particles (30) each having a metal magnetic particle (10) and an insulating film (20) surrounding a surface of said metal magnetic particle (10), and
an organic substance (40) joining said plurality of composite magnetic particles (30) together,
wherein said organic substance (40) has a deflection temperature under load of not more than 400°C, 70°C, and a magnetic flux density when a magnetic field of 100 (oersted) is applied to a dust core fabricated using the soft magnetic material is not less than 1.4 (T: tesla).
2. (Currently Amended) The soft magnetic material according to claim 1, wherein a ratio of said organic substance (40) to the soft magnetic material is ~~more than 0 and not more than 1.0% by mass.~~ not less than 0.3% by mass and not more than 0.5% by mass.
3. (Currently Amended) A dust core using the soft magnetic material according to claim 2, wherein ~~a magnetic flux density when a magnetic field of 100 (oersted) is applied is not less than 1.3 (T: tesla).~~ the dust core is formed as a hollow cylinder having a height H and a wall thickness T, said height H being not less than 25 mm and a ratio H/T of said height H to said wall thickness T being not less than 3.
4. (Currently Amended) ~~The soft magnetic material according to claim 1, wherein a ratio of said organic substance (40) to the soft magnetic material is more than 0 and not more than 0.5% by mass.~~ The dust core according to claim 3, wherein said hollow cylinder has an outer diameter of not less than 30 mm.

5. (Currently Amended) ~~A dust core using the soft magnetic material according to claim 4, wherein a magnetic flux density when a magnetic field of 100 (oersted) is applied is not less than 1.4 (T:tesla).~~ A linear motor core using the dust core according to claim 3.

6. (Currently Amended) A transformer core using the dust core according to claim 5, ~~wherein the ratio of said organic substance (40) to the soft magnetic material is not less than 0.3% by mass and not more than 0.5% by mass~~ 3.

7. (Currently Amended) ~~The dust core according to claim 5, wherein~~

~~the dust core uses the soft magnetic material containing said organic substance (40) by not less than 0.3% by mass and not more than 0.5% by mass, and~~

~~the dust core is formed as a hollow cylinder having a height H and a wall thickness T, said height H being not less than 25 mm and a ratio H/T of said height H to said wall thickness T being not less than 3.~~ A method of manufacturing the dust core according to claim 3, comprising the steps of:

preparing a mold having an inner wall and defining a compression space at a location surrounded by said inner wall, and

putting the soft magnetic material into said compression space without applying a lubricant to said inner wall, and compression molding the soft magnetic material.

8. (Currently Amended) ~~A motor core using~~ The method of manufacturing the dust core according to claim 7, further comprising the step of performing thermal treatment after said step of compression molding, at a temperature of more than a glass transition temperature of said organic substance and not more than a thermal decomposition temperature of said organic substance.

9-15. (Cancelled)